

Title (en)
DISTANCE MEASURING DEVICE

Title (de)
ENTFERNUNGSMESSVORRICHTUNG

Title (fr)
DISPOSITIF DE MESURE DE DISTANCE

Publication
EP 4119975 A4 20230809 (EN)

Application
EP 20924762 A 20201228

Priority
• JP 2020041891 A 20200311
• JP 2020049225 W 20201228

Abstract (en)
[origin: EP4119975A1] A distance measurement apparatus includes a light emitting apparatus capable of emitting first light and second light having a smaller spread than the first light, and changing an emission direction of the second light, a light receiving apparatus; and a processing circuit that controls the light emitting apparatus and the light receiving apparatus and processes a signal output from the light receiving apparatus. The processing circuit performs a process including causing the light receiving apparatus to detect reflected light that occurs due to the first light and reflected light that occurs due to the second light, and generate therefrom first distance data and second distance data, when an object is present outside a first target area included in an area illuminated by the first light, causing the light emitting apparatus to track the object by the second light, and when the object enters the inside of the first target area from the outside of the first target area, causing the light emitting apparatus to stop the tracking by the second light.

IPC 8 full level
G01S 7/481 (2006.01); **G01S 7/48** (2006.01); **G01S 7/4911** (2020.01); **G01S 17/42** (2006.01); **G01S 17/66** (2006.01); **G01S 17/931** (2020.01)

CPC (source: EP US)
G01S 7/4802 (2013.01 - EP); **G01S 7/4817** (2013.01 - US); **G01S 7/4911** (2013.01 - EP); **G01S 17/32** (2013.01 - US); **G01S 17/42** (2013.01 - EP); **G01S 17/66** (2013.01 - EP US); **G01S 17/931** (2020.01 - EP US)

Citation (search report)
• [IA] WO 2017105568 A2 20170622 - QUALCOMM INC [US]
• [A] US 2012249999 A1 20121004 - STETTNER ROGER [US], et al
• See also references of WO 2021181841A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
EP 4119975 A1 20230118; **EP 4119975 A4 20230809**; JP 7555021 B2 20240924; JP WO2021181841 A1 20210916;
US 2022404499 A1 20221222; WO 2021181841 A1 20210916

DOCDB simple family (application)
EP 20924762 A 20201228; JP 2020049225 W 20201228; JP 2022505787 A 20201228; US 202217820267 A 20220817